

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	John M. Grant <i>et al.</i>	Group Art Unit:
Application No.:		Examiner:
Date Filed:	Concurrently Herewith	
Title:	SEMICONDUCTOR DEVICE INCORPORATING A DEFECT CONTROLLED STRAINED CHANNEL STRUCTURE AND METHOD OF MAKING THE SAME	

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner For Patents
Alexandria, VA 22313

SIR:

In accordance with 37 C.F.R. §1.56 and in compliance with 37 C.F.R. §§1.97 and 1.98, the references listed on attached Form PTO/SB/08 and/or subsequently identified herein, are for consideration by the United States Patent and Trademark Office. Pursuant to the Office waiving the requirement under 37 CFR 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003 and for all international applications that have entered the national stage under 35 USC §371 after June 30, 2003, copies of the reference are not submitted herewith.

I. COPIES

- a. ☒ A legible copy of (i) each U.S. and foreign patents; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed, is included herewith.
- b. ☐ Any patents, publications or other information which are listed on PTO/SB/08 which are not enclosed herewith were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. §120:

U.S. Serial Number

U.S. Filing Date

II. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

- a. ☒ Except as may be indicated below in (b) of this section, all of the patents, publications or other information are in the English language (concise explanation not required).
- b. ☐ A concise explanation of the relevance of all patents, publications or other information listed that is not in the English language is as follows:
- c. ☐ The following additional information is provided for the Examiner's consideration:

III. ☐ CROSS REFERENCE TO RELATED APPLICATION(S)

The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this (these) applications to the Examiner's attention, Applicant(s) does(do) not waive the confidentiality provisions of 35 U.S.C. §122.

Serial No.

Filing Date

Art Unit

FEES

IV. ☒ THIS IDS IS BEING FILED UNDER 37 C.F.R. §1.97(b): (check one box)

- a. ☒ within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. §1.97(b)(1)). No fee or statement is required.
- b. ☐ within three months of the date of entry of the national stage as set forth in § 1.491 in an international application (37 C.F.R. §1.97(b)(2)). No fee or statement is required.
- c. ☐ before the mailing date of a first Office Action on the merits (37 C.F.R. §1.97(b)(3)). No fee or statement is required.
- d. ☐ before the mailing date of a first Office Action after the filing of a request for continued examination under § 1.114 (37 C.F.R. § 1.97(b)(4)). No fee or statement is required.

- V. ☐ THIS IDS IS BEING FILED UNDER 37 C.F.R. §1.97(c): (check one box)
before the mailing date of any of a Final Office Action under 37 C.F.R. §1.113, a Notice of Allowance under 37 C.F.R. §1.311, or an action that otherwise closes prosecution in the application (See 37 C.F.R. §1.97(c)).
- a. ☐ No statement; therefore, charge deposit account **502117** the fee set forth in 37 C.F.R. §1.17(p).
b. ☐ See the statement below. No fee is required.

- VI. ☐ THIS IDS IS BEING FILED UNDER 37 C.F.R. §1.97(d):
on or before payment of the issue fee and is accompanied by the following:
- 1) a statement under 37 C.F.R. §1.97(e) as provided below; and
2) charge deposit account **502117** the petition fee set forth in §1.17(p).

- VII. ☐ STATEMENT UNDER 37 C.F.R. §1.97(e) (check only one box, if applicable)
The undersigned hereby states that
- a. ☐ each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of IDS; or
b. ☐ no item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application, and to knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the IDS was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement, or
c. ☐ some of the items of information contained in the IDS were cited in a communication from a foreign Patent Office. As to this information, the undersigned states that each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby states that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the IDS was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement.

- VIII. PAYMENT OF FEES
- ☐ A check in the amount of _____ is enclosed for the above-identified fee(s).
☐ Please charge Deposit Account **502117** in the amount of \$180.00 for the above-indicated fee(s).
☒ If Applicant has overlooked any additional fees, or if any overpayment has been made, the Commissioner is hereby authorized to credit or debit Deposit Account **502117**.
☐ Two Copies of this paper are attached for Deposit Account charges and debits.

The above references are being cited only in the interests of candor and without any admission that they constitute statutory prior art or contain matter which anticipates the invention or which would render the same obvious, either singly or in a combination, to a person of ordinary skill in the art.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. **502117 – Motorola, Inc.**

Respectfully submitted,
John M. Grant *et al.*

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MOTOROLA, INC.
Customer Number 23125

Enclosures: ☒ PTO/SB/08
☒ References
☐ Foreign Search Report
☐ Other:

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	
Filing Date	Concurrently Herewith
First Named Inventor	John M. Grant
Group Art Unit	
Examiner Name	
Attorney Docket Number	SC12480TP

Sheet

of

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number -Kind Code ² (if known)			
	A1	4,522,662	06/11/1985	Bradbury <i>et al.</i>	
	A2	4,557,794	12/10/1985	McGinn <i>et al.</i>	
	A3	4,619,033	10/28/1986	Jastrzebski	
	A4	4,755,481	07/05/1988	Faraone	
	A5	4,760,036	07/26/1988	Schubert	
	A6	4,891,092	01/02/1990	Jastrzebski	
	A7	4,952,526	08/28/1990	Pribat <i>et al.</i>	
	A8	5,120,666	06/09/1992	Gotou	
	A9	5,202,284	04/13/1993	Kamins <i>et al.</i>	
	A10	5,273,921	12/28/1993	Neudeck <i>et al.</i>	
	A11	5,445,107	08/29/1995	Roth <i>et al.</i>	
	A12	6,110,278	08/29/2000	Saxena	
	A13	6,214,653 B1	04/10/2001	Chen <i>et al.</i>	
	A14	6,228,691 B1	05/08/2001	Doyle	
	A15	6,261,878 B1	07/17/2001	Doyle <i>et al.</i>	
	A16	6,326,272 B1	12/04/2001	Chan <i>et al.</i>	
	A17	6,362,071 B1	03/26/2002	Nguyen <i>et al.</i>	
	A18	6,392,253 B1	05/21/2002	Saxena	
	A19	6,429,099 B1	08/06/2002	Christensen <i>et al.</i>	
	A20	2002/0123167 A1	09/05/2002	Fitzgerald	
	A21	2002/0123183 A1	09/05/2002	Fitzgerald	
	A22	2002/0125471 A1	09/12/2002	Fitzgerald <i>et al.</i>	
	A23	2002/0125475 A1	09/12/2002	Chu <i>et al.</i>	
	A24	6,492,216 B1	12/10/2002	Yeo <i>et al.</i>	
	A25	2003/0025131 A1	02/06/2003	Lee <i>et al.</i>	
	A26	2003/0057416 A1	03/27/2003	Currie <i>et al.</i>	
	A27	2003/0057439 A1	03/27/2003	Fitzgerald	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ² (if known)				
	A28	EP 0 391 081 A2	03/07/1990	Sun		
	A29	WO 03/001671 A2	01/030/2003	Leitz <i>et al.</i>		
	A30	WO 03/015142 A2	02/20/2003	Lee <i>et al.</i>		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	A31	Langdo <i>et al.</i> , "High Quality Ge on Si by Epitaxial Necking," <i>Applied Physics Letters</i> , June 19, 2000, Vol. 76, No. 25, pp. 3700-3702.	

Examiner Signature		Date Considered	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation, if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English Language Translation is attached.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.